- 21 -

CLAIMS

- 1. Biodegradable hydrogel comprising bonds which are hydrolysable under physiological conditions.
- 2. Hydrogel according to claim 1, consisting of two interpenetrating polymer networks interconnected to one another through hydrolysable spacers.
- 3. Hydrogel according to claim 1 or 2, being based on crosslinked dextran or a crosslinked derivatized dextran.
- 4. Hydrogel of any one of the preceding claims, based on a polymer crosslinked with methacrylate units.
- 10 5. Hydrogel of any one of the preceding claims, comprising hydrolysable lactate and/or carbonate ester and/or succinic acid and/or ethylene glycol bonds.
 - 6. Method for the preparation of a hydrogel, wherein macromolecules, e.g. polymers, which contain bonds which
- are hydrolysable under physiological conditions, are crosslinked in an aqueous solution.
 - 7. The method of claim 6, wherein the hydrolysable bonds are derived from lactic acid and/or glycolic acid and/or succinic acid and/or ethylene glycol.
- 20 8. The method of claim 6 or 7, wherein a protein drug is present during the crosslinking step.